1635

```
            RAW SEQUENCE LISTING              DATE: 03/05/2001
            PATENT APPLICATION:  US/09/366,081A    TIME: 15:51:30

            Input Set : A:\PTO.txt
            Output Set: N:\CRF3\03052001\I366081A.raw
```

```
       3 <110> APPLICANT: Brenner, Sydney
W--> 4 <120> TITLE OF INVENTION: Compositons for Sorting Polynucleotides
W--> 5 <130> FILE REFERENCE: 802-04RE
W--> 6 <140> CURRENT APPLICATION NUMBER: US 09/366,081A
       7 <141> CURRENT FILING DATE: 1999-08-02
       8 <150> PRIOR APPLICATION NUMBER: US 08/484,712
       9 <151> PRIOR FILING DATE: 1995-06-07
      10 <150> PRIOR APPLICATION NUMBER: US 08/358,810
      11 <151> PRIOR FILING DATE: 1994-12-19
      12 <150> PRIOR APPLICATION NUMBER: US 08/322,348
      13 <151> PRIOR FILING DATE: 1994-10-13
W--> 14 <160> NUMBER OF SEQ ID: 19
      15 <170> SOFTWARE: Microsoft Word97
      17 <210> SEQ ID NO: 1
      18 <211> LENGTH: 38
      19 <212> TYPE: DNA
      20 <213> ORGANISM: Artificial Sequence
W--> 21 <220> FEATURE:
      22 <223> OTHER INFORMATION: Segment of vector.
W--> 23 <400> SEQUENCE: 1
      24 gaggatgcct ttatggatcc actcgagatc ccaatcca          38
      26 <210> SEQ ID NO: 2
      27 <211> LENGTH: 26
      28 <212> TYPE: DNA
      29 <213> ORGANISM: Artificial Sequence
W--> 30 <220> FEATURE:
      31 <223> OTHER INFORMATION: Adaptor.
W--> 32 <400> SEQUENCE: 2
      33 aattcggatg atgcatgcat cgaccc                       26
      35 <210> SEQ ID NO: 3
      36 <211> LENGTH: 14
      37 <212> TYPE: DNA
      38 <213> ORGANISM: Artificial Sequence
W--> 39 <220> FEATURE:
      40 <223> OTHER INFORMATION: Adaptor.
W--> 41 <400> SEQUENCE: 3
      42 tcgagtcatc cgat                                    14
      44 <210> SEQ ID NO: 4
      45 <211> LENGTH: 39
      46 <212> TYPE: DNA
      47 <213> ORGANISM: Artificial Sequence
W--> 48 <220> FEATURE:
      49 <223> OTHER INFORMATION: Tag complement linked to solid phase support.
W--> 50 <400> SEQUENCE: 4
      51 dddddddddd dddddddddd dddddddddd ddddddtgg          39
      53 <210> SEQ ID NO: 5
      54 <211> LENGTH: 68
```
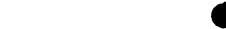
RAW SEQUENCE LISTING   DATE: 03/05/2001
PATENT APPLICATION: US/09/366,081A   TIME: 15:51:30

Input Set : A:\PTO.txt
Output Set: N:\CRF3\03052001\I366081A.raw

```
       55 <212> TYPE: DNA
       56 <213> ORGANISM: Artificial Sequence
W-->   57 <220> FEATURE:
       58 <223> OTHER INFORMATION: Primer for synthesis of first strand of cDNA. Primer contains tag
       59       sequence.
W-->   60 <400> SEQUENCE: 5
       61 ctagtcgacc ahhhhhhhhh hhhhhhhhhh.hhhhhhhhhh hhhhhhggt      50
       62 tttttttttt tttttttt                                      68
       64 <210> SEQ ID NO: 6
       65 <211> LENGTH: 11
       66 <212> TYPE: DNA
       67 <213> ORGANISM: Artificial Sequence  → Missing <223> feature to explain
W-->   68 <220> FEATURE:  _____     the artificial sequence.
W-->   69 <221> NAME/KEY: any of a, c, g, t, or u at indicated position
       70 <222> LOCATION: 1, 9-11
       71 <223> OTHER INFORMATION: a, c, g, t, or u
W-->   72 <400> SEQUENCE: 6
W-->   73 nrrgatcynn n                                              11
       75 <210> SEQ ID NO: 7
       76 <211> LENGTH: 22
       77 <212> TYPE: DNA
       78 <213> ORGANISM: Artificial Sequence
W-->   79 <220> FEATURE:
       80 <223> OTHER INFORMATION: Adaptor.
W-->   81 <400> SEQUENCE: 7
       82 gggtcgatgc atgcatcatc cg                                  22
       84 <210> SEQ ID NO: 8
       85 <211> LENGTH: 10
       86 <212> TYPE: DNA
       87 <213> ORGANISM: Artificial Sequence
W-->   88 <220> FEATURE:
       89 <223> OTHER INFORMATION: Adaptor.
W-->   90 <400> SEQUENCE: 8
       91 atcggatgac                                                10
       93 <210> SEQ ID NO: 9
       94 <211> LENGTH: 43
       95 <212> TYPE: DNA
       96 <213> ORGANISM: Artificial Sequence
W-->   97 <220> FEATURE:
       98 <223> OTHER INFORMATION: Adaptor containing oligonucleotide tag.
W-->   99 <400> SEQUENCE: 9
      100 tcgacchhhh hhhhhhhhhh hhhhhhhhhh hhhhhhhhhh hha            43
      102 <210> SEQ ID NO: 10
      103 <211> LENGTH: 43
      104 <212> TYPE: DNA
      105 <213> ORGANISM: Artificial Sequence
W-->  106 <220> FEATURE:
      107 <223> OTHER INFORMATION: Adaptor containing oligonucleotide tag.
W-->  108 <400> SEQUENCE: 10
```

RAW SEQUENCE LISTING   DATE: 03/05/2001
PATENT APPLICATION: US/09/366,081A   TIME: 15:51:30

            Input Set : A:\PTO.txt
            Output Set: N:\CRF3\03052001\I366081A.raw

```
        109 tcgacchhhh hhhhhhhhhh hhhhhhhhhh hhhhhhhhhh hha          43
        111 <210> SEQ ID NO: 11
        112 <211> LENGTH: 16
        113 <212> TYPE: DNA
        114 <213> ORGANISM: Artificial Sequence
W--> 115 <220> FEATURE:
        116 <223> OTHER INFORMATION: Adaptor.
W--> 117 <400> SEQUENCE: 11
        118 atcggatgac atcaac                                      16
        120 <210> SEQ ID NO: 12
        121 <211> LENGTH: 20
        122 <212> TYPE: DNA
        123 <213> ORGANISM: Artificial Sequence
W--> 124 <220> FEATURE:
W--> 125 <221> NAME/KEY: any of a, c, g, t, or u at indicated position
        126 <222> LOCATION: 1-3
        127 <223> OTHER INFORMATION: a, c, g, t, or u
W--> 128 <400> SEQUENCE: 12
W--> 129 nnnagttgat gtcatccgat                                     20
        131 <210> SEQ ID NO: 13
        132 <211> LENGTH: 20
        133 <212> TYPE: DNA
        134 <213> ORGANISM: Artificial Sequence
W--> 135 <220> FEATURE:
W--> 136 <221> NAME/KEY: any of a, c, g, t, or u at indicated position
        137 <222> LOCATION: 1-3
        138 <223> OTHER INFORMATION: a, c, g, t, or u
W--> 139 <400> SEQUENCE: 13
W--> 140 nnncgttgat gtcatccgat                                     20
        142 <210> SEQ ID NO: 14
        143 <211> LENGTH: 20
        144 <212> TYPE: DNA
        145 <213> ORGANISM: Artificial Sequence
W--> 146 <220> FEATURE:
W--> 147 <221> NAME/KEY: any of a, c, g, t, or u at indicated position
        148 <222> LOCATION: 1-3
        149 <223> OTHER INFORMATION: a, c, g, t, or u
W--> 150 <400> SEQUENCE: 14
W--> 151 nnnggttgat gtcatccgat                                     20
        153 <210> SEQ ID NO: 15
        154 <211> LENGTH: 20
        155 <212> TYPE: DNA
        156 <213> ORGANISM: Artificial Sequence
W--> 157 <220> FEATURE:
W--> 158 <221> NAME/KEY: any of a, c, g, t, or u at indicated position
        159 <222> LOCATION: 1-3
        160 <223> OTHER INFORMATION: a, c, g, t, or u
W--> 161 <400> SEQUENCE: 15
W--> 162 nnntgttgat gtcatccgat                                     20
```

Missing mandatory <223> feature to explain the source of the artificial sequence (handwritten annotation, referring to line 123)

Missing <223> feature (handwritten annotation, referring to line 134)

Same as above. (handwritten annotation, referring to line 145)

Same as above. (handwritten annotation, referring to line 156)

RAW SEQUENCE LISTING   DATE: 03/05/2001
PATENT APPLICATION: US/09/366,081A   TIME: 15:51:30

Input Set : A:\PTO.txt
Output Set: N:\CRF3\03052001\I366081A.raw

```
      164 <210> SEQ ID NO: 16
      165 <211> LENGTH: 37
      166 <212> TYPE: DNA
      167 <213> ORGANISM: Artificial Sequence  ——> <223> explaination of artificial
W--> 168 <220> FEATURE:                                                  sequence?
W--> 169 <221> NAME/KEY: any of a, c, g, t, or u at indicated position
      170 <222> LOCATION: 1-5, 10-23, 25-37
      171 <223> OTHER INFORMATION: a, c, g, t, or u
W--> 172 <400> SEQUENCE: 16
W--> 173 nnnnnggatg nnnnnnnnnn nnntnnnnnn nnnnnnn              37
      175 <210> SEQ ID NO: 17
      176 <211> LENGTH: 43
      177 <212> TYPE: DNA
      178 <213> ORGANISM: Artificial Sequence
W--> 179 <220> FEATURE:
      180 <223> OTHER INFORMATION: Adaptor containing oligonucleotide tag.
W--> 181 <400> SEQUENCE: 17
      182 tcgacchhhh hhhhhhhhhh hhhhhhhhhh hhhhhhhhhh hha              43
      184 <210> SEQ ID NO: 18
      185 <211> LENGTH: 42
      186 <212> TYPE: DNA
      187 <213> ORGANISM: Artificial Sequence
W--> 188 <220> FEATURE:
      189 <223> OTHER INFORMATION: Adaptor containing oligonucleotide tag.
W--> 190 <400> SEQUENCE: 18
      191 gggcchhhhh hhhhhhhhhh hhhhhhhhhh hhhhhhhhhh ha              42
      193 <210> SEQ ID NO: 19
      194 <211> LENGTH: 62
      195 <212> TYPE: DNA
      196 <213> ORGANISM: Artificial Sequence
W--> 197 <220> FEATURE:
      198 <223> OTHER INFORMATION: DNA fragment containing oligonucleotide tag.
W--> 199 <400> SEQUENCE: 19
      200 rcgaccahhh hhhhhhhhhh hhhhhhhhhh hhhhhhhhhh hhhtttttttt              50
      201 tttttttttt tt              62
```

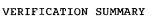VERIFICATION SUMMARY   DATE: 03/05/2001
PATENT APPLICATION: US/09/366,081A   TIME: 15:51:31

Input Set : A:\PTO.txt
Output Set: N:\CRF3\03052001\I366081A.raw

```
L:4 M:283 W: Missing Blank Line separator, <120> field identifier
L:5 M:283 W: Missing Blank Line separator, <130> field identifier
L:6 M:283 W: Missing Blank Line separator, <140> field identifier
L:14 M:283 W: Missing Blank Line separator, <160> field identifier
L:21 M:283 W: Missing Blank Line separator, <220> field identifier
L:23 M:283 W: Missing Blank Line separator, <400> field identifier
L:30 M:283 W: Missing Blank Line separator, <220> field identifier
L:32 M:283 W: Missing Blank Line separator, <400> field identifier
L:39 M:283 W: Missing Blank Line separator, <220> field identifier
L:41 M:283 W: Missing Blank Line separator, <400> field identifier
L:48 M:283 W: Missing Blank Line separator, <220> field identifier
L:50 M:283 W: Missing Blank Line separator, <400> field identifier
L:57 M:283 W: Missing Blank Line separator, <220> field identifier
L:60 M:283 W: Missing Blank Line separator, <400> field identifier
L:68 M:283 W: Missing Blank Line separator, <220> field identifier
L:69 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6
L:72 M:283 W: Missing Blank Line separator, <400> field identifier
L:73 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:79 M:283 W: Missing Blank Line separator, <220> field identifier
L:81 M:283 W: Missing Blank Line separator, <400> field identifier
L:88 M:283 W: Missing Blank Line separator, <220> field identifier
L:90 M:283 W: Missing Blank Line separator, <400> field identifier
L:97 M:283 W: Missing Blank Line separator, <220> field identifier
L:99 M:283 W: Missing Blank Line separator, <400> field identifier
L:106 M:283 W: Missing Blank Line separator, <220> field identifier
L:108 M:283 W: Missing Blank Line separator, <400> field identifier
L:115 M:283 W: Missing Blank Line separator, <220> field identifier
L:117 M:283 W: Missing Blank Line separator, <400> field identifier
L:124 M:283 W: Missing Blank Line separator, <220> field identifier
L:125 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:12
L:128 M:283 W: Missing Blank Line separator, <400> field identifier
L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:135 M:283 W: Missing Blank Line separator, <220> field identifier
L:136 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:13
L:139 M:283 W: Missing Blank Line separator, <400> field identifier
L:140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:146 M:283 W: Missing Blank Line separator, <220> field identifier
L:147 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:14
L:150 M:283 W: Missing Blank Line separator, <400> field identifier
L:151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:157 M:283 W: Missing Blank Line separator, <220> field identifier
L:158 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:15
L:161 M:283 W: Missing Blank Line separator, <400> field identifier
L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:168 M:283 W: Missing Blank Line separator, <220> field identifier
L:169 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:16
L:172 M:283 W: Missing Blank Line separator, <400> field identifier
L:173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
```

VERIFICATION SUMMARY   DATE: 03/05/2001
PATENT APPLICATION: US/09/366,081A   TIME: 15:51:31

Input Set : A:\PTO.txt
Output Set: N:\CRF3\03052001\I366081A.raw

L:181 M:283 W: Missing Blank Line separator, <400> field identifier
L:188 M:283 W: Missing Blank Line separator, <220> field identifier
L:190 M:283 W: Missing Blank Line separator, <400> field identifier
L:197 M:283 W: Missing Blank Line separator, <220> field identifier
L:199 M:283 W: Missing Blank Line separator, <400> field identifier